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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/055,611	09/03/2002	Arie Hengelmolen	17648 A	4946
75	90 12/26/2003		EXAMINER	
Synnestvedt & Lechner LLP			NGUYEN, CHAU N	
2600 Aramark 7 1101 Market Str	· · · · · ·		ART UNIT	PAPER NUMBER
Philadelphia, P.	A 19107-2950		2831	
			DATE MAILED: 12/26/200	3

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
Office Action Summary	10/055,611	HENGELMOLEN E	.T AL.			
omec Addon dammary	Examiner	Art Unit				
The MAILING DATE of this communication ap	Chau N Nguyen	2831	/			
P riod f r R ply	pears on the cover she	et with the correspondence add	iress			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a represent of the period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut.  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, no oly within the statutory minimum will apply and will expire SIX (6 e, cause the application to beco	nay a reply be timely filed  of thirty (30) days will be considered timely. ) MONTHS from the mailing date of this con me ABANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 03 S	September 2002.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)  Claim(s) 7-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 7,8 and 10 is/are rejected.  7)  Claim(s) 9,11 and 12 is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.						
Application Papers	·					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposite and accomposite accomposite and accomposite accomposite and accomposite and accomposite and accomposite and accomposite and accomposite accomposit	cepted or b) objected or b) objected or b) objected or about the drawing (s) be held in about or a comment of the drawing of the drawing of the drawing or b).	neyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 CFF	` '			
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the fire 37 CFR 1.78. a) The translation of the foreign language priority.  14) Acknowledgment is made of a claim for domest reference was included in the first sentence of the	ts have been received ts have been received ority documents have but (PCT Rule 17.2(a)). It of the certified copies tic priority under 35 U.S ast sentence of the specific priority under 35 U.S as the covisional application had tic priority under 35 U.S as the covisional application had to priority under 35 U.S	in Application No been received in this National Solution of the control	application) Data Sheet.			
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notic	view Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO- ::				

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### **DETAILED ACTION**

## Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

### Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (e) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
  - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).

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(j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).

(k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 7, 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Luther et al. (6,305,850) in view of Tanaka et al. (5,862,280).

Luther et al. discloses (Figs 8-11) a ferrule comprising at least two alignment pin holes (see Fig. 9, the two holes on the lateral sides) into which alignment pins for positioning with respect to a mating ferrule are inserted, a plurality of fiber fixed holes (18) for inserting an optical fiber, the fiber fixed holes being formed at predetermined locations with respect to the two alignment pin holes, wherein each of the fiber fixed holes has at least a fiber guide portion (18a, fig. 11) for guiding the optical fiber, a fiber hole portion (18b) adjacent the fiber guide portion to

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receive the tip end of the optical fiber, and a fiber insertion portion (18c) adjacent the fiber guide portion to receive the sheathed portion of the optical fiber.

Luther et al. does not disclose the fiber guide portion (18a) and the fiber insertion portion (18c) being joined with a connection position having a tapered shape. Tanaka et al. discloses a ferrule comprising a fiber insertion portion (Fig. 5A) and a fiber guide portion, wherein the fiber guide portion and the fiber insertion portion are joined with a connection position having a tapered shape (4b). It would have been obvious to one skilled in the art to provide a tapered shape as taught by Tanaka et al. at the connection position between the fiber insertion portion and the fiber guide portion of Luther et al. to further prevent the optical fiber from breakage during the insertion of the optical fiber into the ferrule or during the use of the optical fiber connector and to further facilitating the work of insertion as taught by Tanaka et al. (col. 8, lines 19-23).

Re claims 8 and 10, Luther et al. discloses the fiber insertion portion of each fiber fixed hole being formed as a common fiber insertion portion for introducing a plurality of sheathed portions, the fiber insertion portion being provided with movement regulating means for regulating the movement of sheathed portion in the direction of arrangement of sheathed portion (Fig. 11), and an adhesive agent

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pool for fixing the optical fiber being formed at the opening portion of the fiber insertion portion.

## Allowable Subject Matter

3. Claims 9, 11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Cited Art

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hug et al., Knecht et al., Barnes et al., Suematsu et al., and Moriyama et al. discloses ferrules for optical fibers, comprising at least three portions for receiving the optical fiber.

#### Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau N Nguyen whose telephone number is 308-0693. The examiner can normally be reached on Mon-Fri.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (703) 308 3682. The fax phone number for the organization where this application or proceeding is assigned is (703) 305 3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Chau N Nguyen Primary Examiner Art Unit 2831

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